working, in the increase of the quantity of heat yielded up to the combustion chamber.

UTILISATION OF HEAT IN THE CHAMBERS.

By means of the previously ascertained figures it is easy to reach a conclusion as to the utilisation of heat in the chambers. The amount of heat which the waste gases give up to the chambers must be equal to the available heat of the waste gases on their entry into the chambers, less their available heat on their exit therefrom. The temperature of the waste gases on their entry into the chambers amounts now to 1,700°, and the value of the available heat can be taken directly from the foregoing tables, whilst for determination of the amount of heat issuing, the basis has to be established. For this let it be assumed that the exit temperature should amount to 700°.

TABLE M.—UTILISATION OP THE WASTE GASES IN THE CHAMBEKS.

	||d 1 »3 «~f 0*3 ""	| &$ |bD <u	Hi *3 g-d ||| £&'3 ££*	er ^ ci "3 too 'a o rf £ SI	lid o a^ *"' r-| J% 0|"	Air-Gas
	The o-retic al.	The o-retic al.	The o-retic al.	The o-retic al.	Pract ical.	The o-retic al.
Available heat of the entering waste gases at 1,700° .	Cals. 11,477	Cals. 10,693	Cals. 9,297	Cals. 8,992	Cals. 12,162	Cals. 8,678
Available heat of the outgoing waste gases at 700° .	3,887	3,625	3,184	3,077	4,082	2,990
Energy given up to the chambers	7,590	7,068	6,113	5,915	8,080	5,688
Necessary for preheat-ing (vide preceding table)	6,796	6,583	5,584	5,426	7,288	5,246
Surplus energy . Waste gases	794 14-76 cbm.	485 13-70 cbrn.	529 12-00 cbm.	489 11-76 cbm.	792 15-05 cbm.	442 11-53 cmb.